



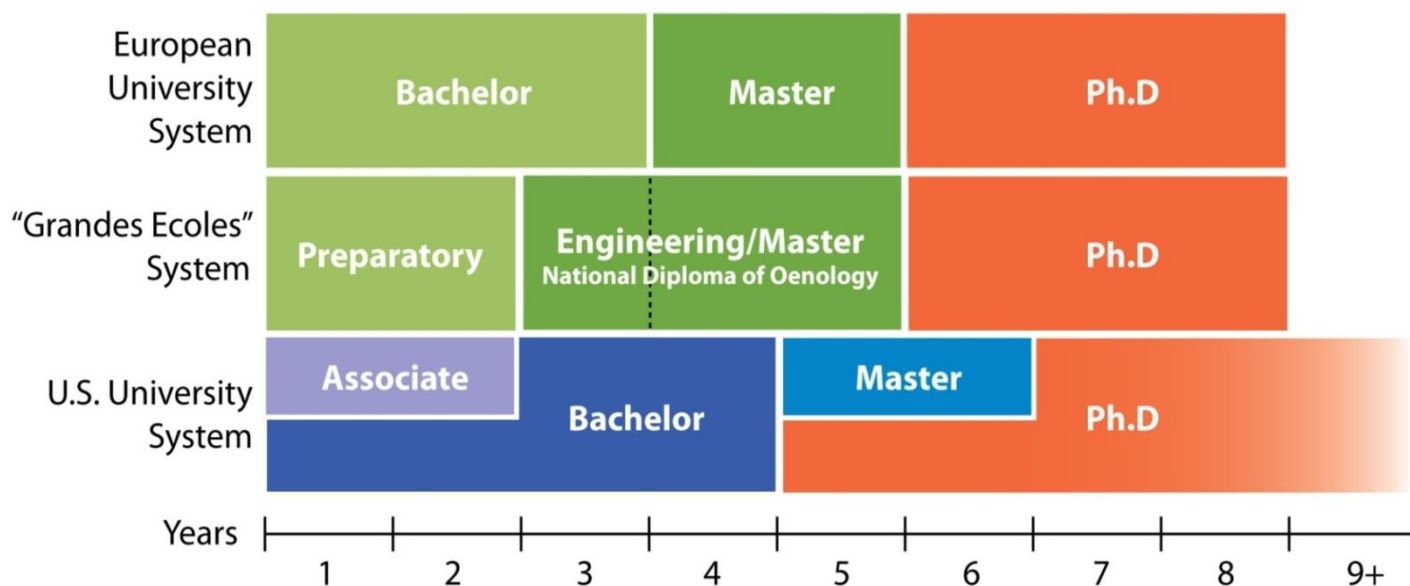
**BORDEAUX  
SCIENCES  
AGRO**

# Bordeaux Sciences Agro Research and Innovation to support agricultural and food transitions



# « Grande Ecole » Education System

- Higher education institution inside the French « Grandes Ecoles » system
- A two-year preparatory program before a competitive exam
- « Ingénieur » degree – Master-grade degree in Agronomy



PhD and research with universities and national research institutes

# Our strategy

- Support agricultural, food, and forestry **transitions** through education, research, and innovation.
- Develop **partnerships with companies** in our sectors to ensure the successful integration of our students.
- Set an example by developing an **exemplary and experimental campus**

# The challenges we contribute to address

- Responding to **environmental challenges** and managing associated **risks**
- Accelerating **agro-ecological and food transitions**, taking into account economic and social aspects
- A **bio-economy** based on the rational and circular use of resources
- Promoting a **global approach to health**
- Mobilising **data science and digital technologies** to support transitions.



# Research focused on 2 sectors and 2 main themes

Research into emblematic sectors in the New Aquitaine region:



**vine/wine  
and  
forest/wood**



***Agrosystems and  
Agroecology***



***Agro-Industry  
and Health  
Nutrition***

Our scientists are working in **15 research units** to meet today's agricultural and food challenges in terms of

- **agro-ecological transition**, pesticide reduction
- biodiversity
- **climate change**
- human and animal nutrition



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# Research partnerships and programs

- **Partners :**
  - **National Research Institutes :INRAE, CNRS, INSERM**
  - **University of Bordeaux and partnership institute ISVV ( Institut des Sciences de la vigne et du vin)**
- **Ex. Research Programs :**
  - **At National level :** TETRAE (Transition in Agriculture, Food, and Environment Territories) *How can agricultural, food, and environmental transitions be driven by regional partnerships and interdisciplinary approaches?*
  - **At regional level :** Bordeaux Plant Sciences  
*Study the trade-offs between production and resistance to environmental constraints in plants. For example, how do plants allocate their resources between growth and defense against environmental stress?*

# Innovation and Partnership Chairs

*Thanks to sponsorship, bringing together businesses, education, and research to disseminate research results, explore R&D questions (through workshops, seminars, student internships, etc.) and structure a training offering*

- **Chair of Bioeconomy, forest and territories**
- **Chair of Agro- ITC**
- **Chair of Organic farming**

# Experimental Campus with Farmlab@Bordeaux

An experimental campus with demonstrators  
A stakeholder in Bordeaux's experimental campus

## FarmLab#Agro

A demonstrator  
an agro-ecological campus for  
educational and experimental  
purposes  
can be rolled out across the  
entire Bordeaux university site -  
must be economically viable



An urban  
micro-farm



Experimentation  
tools  
A laboratory  
dedicated to agro-  
ecology



## FarmLab#Num

A platform for demonstrating  
and testing digital technologies  
for sustainable agro-ecological  
production,  
open to initial and vocational  
training



Digital experimentation  
and agricultural robotics  
on the BSA campus  
And out of doors



## FarmLab#Food

An experimental agri-food  
training platform to give  
students practical training while  
opening up the school to R&D  
from local businesses



A technology hall in the heart  
of the school  
renovated BSA  
An analysis laboratory  
food  
Sensory analysis rooms

Interaction with hosted companies  
in the agri-agro business centre